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**FINAL**  
**TOP-TEAM**

### **ABSTRACT OF THE DISCLOSURE**

An acrylonitrile block copolymer and method for producing the same. A macroinitiator is produced by halogenating the terminal group of the polyester. The macroinitiator then contacts with acrylonitrile (AN) monomer or its derivative in the presence of the metal catalyst and solvent mixture to produce a block copolymer composed of a polyacrylonitrile, and a polyester.